AR201-13158B

BOILING POINT

TEST SUBSTANCE

- **Identity:** Aluminum, tri n-octyl
- CAS: 1070-00-4

Remarks field for Test Substance: 7% solution in solvent

METHOD

- **Method/guideline followed:** ASTM El 719 Standard Test Method for Vapor Pressure of Liquids by Ebulliometry
- **GLP** (Y/N): Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions:

RESULTS

- **Boiling point value (°C):** 361
- **Pressure: 760**
- **Pressure unit:** mmHg
- **Decomposition (yes/no/ambiguous):**

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**
-

Remarks field for Data Reliability

REFERENCES

Key Study: Original Studies conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)
Supporting Data:

BOILING POINT

TEST SUBSTANCE

- **Identity:** Aluminum, chlorodiethyl

. CAS: 96-10-6

Remarks field for Test Substance

METHOD

- **Method/guideline followed:** ASTM El 719 Standard Test Method for Vapor Pressure of Liquids by Ebulliometry
- **GLP** (Y/N): Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions:

RESULTS

- **Boiling point value (°C): *214***
- **Pressure: 760**
- **Pressure unit:** mmHg
- **Decomposition (yes/no/ambiguous):**

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**
-

Remarks field for Data Reliability

REFERENCES

Key Study: Original Studies conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)
Supporting Data:

FLASH POINT

TEST SUBSTANCE

- **Identity:** Aluminum, chlorodiethyl
- CAS#: 96-1 O-6

Remarks field for Test Substance

METHOD

- **Method/guideline followed:** ASTM D93 Standard Test Methods for Flash-Point by Pensky-Martens Closed Cup Tester
- **GLP** (Y/N): Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions:

RESULTS

- **Flash Point value (°C): -23**
- **Decomposition (yes/no/ambiguous):**

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**

Remarks field for Data Reliability

REFERENCES

Key Study: Original Study conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet, 2000

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)

Supporting Data:

VAPOUR PRESSURE

TEST SUBSTANCE

- **Identity:** Aluminum, chlorodiethyl
- CAS# 96-10-6
-

Remarks field for Test Substance

METHOD

- **Method/guideline followed:** ASTM El 719 Standard Test Method for Vapor Pressure of Liquids by Ebulliometry
- **GLP** (Y/N): Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions: Aluminum alkyl assumed to consist entirely of the equilibrium mixture of monomer and dimer.

RESULTS

- **Vapor Pressure value: 0.17** mm Hg
- **Temperature ("C): 25**
- **Decomposition (yes/no/ambiguous):**

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**

Remarks field for Data Reliability

REFERENCES

Key Study: Original Studies Conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet, 2000

-

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)

Supporting Data:

BOILING POINT

TEST SUBSTANCE

- **Identity:** Aluminum, dichloroethyl

. CAS: 563-43-9

Remarks field for Test Substance

METHOD

- **Method/guideline followed:** ASTM El 719 Standard Test Method for Vapor Pressure of Liquids by Ebulliometry
- **GLP** (Y/N): Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions:

RESULTS

- **Boiling point value (°C): 203**
- **Pressure: 760**
- **Pressure unit:** mmHg
- **Decomposition (yes/no/ambiguous):**

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**
-

Remarks field for Data Reliability

REFERENCES

Key Study: Original Studies conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)
Supporting Data:

Density

Test Substance

Identity: Aluminum, dichloroethyl
CAS# 563-43-9

Method: ASTM D1217 Standard Method for Density and Relative Density (Specific Gravity) of Liquids by Bingham Pycnometer

GLP (Y/N): Unknown

Year (study performed): Unknown

Results

Density value (“C): 1.2

Conclusions

Data Quality

Reliabilities (Klimisch Code):

References

Key Study: Study conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

Other

Supporting Data:

Melting Point

Test Substance

Identity: Aluminum, dichloroethyl

CAS: 563-43-9

Remarks Field for Test Substance

Method

Method/guideline followed: Unknown

GLP (Y/N): Unknown

Year (study performed): Unknown

Remarks Field for Test Conditions

Results

Melting point value (°C): 32

Decomposition (yes/no/ambiguous):

Sublimation (yes/no/ambiguous):

Remarks Field for Results

Conclusions

Remarks Field with Ability to Identify Source of Comment

Data Quality

Reliabilities (Klimisch Code):

Remarks Field for Data Reliability

References

Key Study: Original work done by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

Other

Last changed (administrative field for updating):

Order number for sorting (administrative field):

Remarks Field for Genera/ Remarks
Supporting Data:

VAPOUR PRESSURE

TEST SUBSTANCE

- **Identity:** Aluminum, dichloroethyl
- CAS# 563-43-9
-

Remarks field for Test Substance

METHOD

- **Method/guideline followed:** ASTM El 719 Standard Test Method for Vapor Pressure of Liquids by Ebulliometry
- **GLP** (Y/N): Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions: Aluminum alkyl assumed to consist entirely of the equilibrium mixture of monomer and dimer.

RESULTS

- **Vapor Pressure value:** 10 mm Hg
- **Temperature ("C): 80**
- **Decomposition (yes/no/ambiguous):**

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**

Remarks field for Data Reliability

REFERENCES

Key Study: Original Studies Conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet, 2000

-

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)

Supporting Data:

BOILING POINT

TEST SUBSTANCE

- **Identity:** Aluminum, triethyl
- CAS: 97-93-8

Remarks field for Test Substance

METHOD

- **Method/guideline followed:** ASTM El 719 Standard Test Method for Vapor Pressure of Liquids by Ebulliometry
- **GLP** (Y/N): Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions:

RESULTS

- **Boiling point value (°C):** 185
- **Pressure: 760**
- **Pressure unit:** mmHg
- **Decomposition (yes/no/ambiguous):**

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**
-

Remarks field for Data Reliability

REFERENCES

Key Study: Original Studies conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)
Supporting Data:

Density

Test Substance

Identity: Aluminum, triethyl
CAS# 97-93-8

Method: ASTM D1217 Standard Method for Density and Relative Density (Specific Gravity) of Liquids by Bingham Pycnometer

GLP (Y/N): Unknown

Year (study performed): Unknown

Results

Density value (°C): 0.83

Conclusions

Data Quality

Reliabilities (Klimisch Code):

References

Key Study: Study conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

Other

Supporting Data:

VAPOUR PRESSURE

TEST SUBSTANCE

- **Identity:** Aluminum, triethyl
- CAS# 97-93-8
-

Remarks field for Test Substance

METHOD

- **Method/guideline followed:** ASTM El 719 Standard Test Method for Vapor Pressure of Liquids by Ebulliometry
- **GLP (Y/N):** Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions: Aluminum alkyl assumed to consist entirely of the equilibrium mixture of monomer and dimer.

RESULTS

- **Vapor Pressure value: 0.0253** mm Hg/ 913 mm Hg
- **Temperature ("C):** 25/ **190**
- **Decomposition (yes/no/ambiguous):**

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**

Remarks field for Data Reliability

REFERENCES

Key Study: Original Studies Conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet, 2000

-

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)

Supporting Data:

Density

Test Substance

Identity: Aluminum, tri hexyl
CAS# 1116-73-o

Note on Test Substance:

Method: ASTM D1217 Standard Method for Density and Relative Density (Specific Gravity) of Liquids by Bingham Pycnometer

GLP (Y/N): Unknown

Year (study performed): Unknown

Results

Density value (“C): 0.65

Conclusions

Data Quality

Reliabilities (Kiimisch Code):

References

Key Study: Study conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

Other

Supporting Data:

BOILING POINT

TEST SUBSTANCE

- **Identity:** Aluminum, tri butyl
- CAS: 1116-70-7

Remarks field for Test Substance:

METHOD

- **Method/guideline followed:** ASTM El 719 Standard Test Method for Vapor Pressure of Liquids by Ebulliometry
- **GLP** (Y/N): Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions:

RESULTS

- **Boiling point value (°C): 240**
- **Pressure: 760**
- **Pressure unit:** mmHg
- **Decomposition (yes/no/ambiguous):**

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**
-

Remarks field for Data Reliability

REFERENCES

Key Study: Original Studies conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)
Supporting Data:

Density

Test Substance

Identity: Aluminum, tri butyl
CAS# 1116-70-7

Note on Test Substance:

Method: ASTM D1217 Standard Method for Density and Relative Density (Specific Gravity) of Liquids by Bingham Pycnometer

GLP (Y/N): Unknown

Year (study performed): Unknown

Results

Density value (°C): 0.82 C

Conclusions

Data Quality

Reliabilities (Klimisch Code):

References

Key Study: Study conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

Other

Supporting Data:

Density

Test Substance

Identity: Aluminum, tri hexyl
CAS# 1116-73-o

Note on Test Substance:

Method: ASTM D1217 Standard Method for Density and Relative Density (Specific Gravity) of Liquids by Bingham Pycnometer

GLP (Y/N): Unknown

Year (study performed): Unknown

Results

Density value (°C): 0.65

Conclusions

Data Quality

Reliabilities (Klimisch Code):

References

Key Study: Study conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

Other

Supporting Data:

Melting Point

Test Substance

Identity: Aluminum, trihexyl

CAS: 1116-73-o

Remarks Field for Test Substance

Method

Method/guideline followed: Unknown

GLP (Y/N): Unknown

Year (study performed): Unknown

Remarks Field for Test Conditions

Results

Melting point value (°C): -60
Decomposition (yes/no/ambiguous):

Sublimation (yes/no/ambiguous):

Remarks Field for Results

Conclusions

Remarks Field with Ability to Identify Source of Comment

Data Quality

Reliabilities (Klimisch Code):

Remarks Field for Data Reliability

References

Key Study: Original work done by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

Other

Last changed (administrative field for updating):

Order number for sorting (administrative field):

Remarks Field for Genera/ Remarks
Supporting Data:

VAPOUR PRESSURE

TEST SUBSTANCE

- **Identity:** Aluminum, trihexyl

. CAS# 1116-73-O

- **Remarks field for Test Substance:**

METHOD

- **Method/guideline followed:** ASTM El 719 Standard Test Method for Vapor Pressure of Liquids by Ebulliometry
- **GLP** (Y/N): Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions: Aluminum alkyl assumed to consist entirely of the equilibrium mixture of monomer and dimer.

RESULTS

- **Vapor Pressure value: < 0.75** mm Hg
- **Temperature ("C): 80**
- **Decomposition (yes/no/ambiguous):**

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**

Remarks field for Data Reliability

REFERENCES

Key Study: Original Studies Conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet, 2000

-

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)

VAPOUR PRESSURE

TEST SUBSTANCE

- **Identity:** Aluminum, triisobutyl

. CAS# 100-99-2

Remarks field for Test Substance

METHOD

- **Method/guideline followed:** ASTM El 719 Standard Test Method for Vapor Pressure of Liquids by Ebulliometry
- **GLP** (Y/N): Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions: Aluminum alkyl assumed to consist entirely of the equilibrium mixture of monomer and dimer.

RESULTS

- **Vapor Pressure value: *0.133*** mm Hg
- **Temperature ("C): 25**
- **Decomposition (yes/no/ambiguous):**

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**

Remarks field for Data Reliability

REFERENCES

Key Study: Original Studies Conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet, 2000

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)

Supporting Data:

BOILING POINT

TEST SUBSTANCE

- **Identity:** Aluminum, triisobutyl

. CAS: 100-99-2

Remarks field for Test Substance

METHOD

- **Method/guideline followed:** ASTM El 719 Standard Test Method for Vapor Pressure of Liquids by Ebulliometry
- **GLP** (Y/N): Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions:

RESULTS

- **Boiling point value (°C):** 214
- **Pressure: 760**
- **Pressure unit:** mmHg
- **Decomposition (yes/no/ambiguous):**

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**

Remarks field for Data Reliability

REFERENCES

Key Study: Original Studies conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)
Supporting Data:

Density

Test Substance

Identity: Aluminum, triisobutyl
CAS# 100-99-2

Method: ASTM D1217 Standard Method for Density and Relative Density (Specific Gravity) of Liquids by Bingham Pycnometer

GLP (Y/N): Unknown

Year (study performed): Unknown

Results

Density value (°C): ***0.78*** g/mL @25C

Conclusions

Data Quality

Reliabilities (Klimisch Code):

References

Key **Study:** Study conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

Other

Supporting Data:

FLASH POINT

TEST SUBSTANCE

- **Identity:** Aluminum, triisobutyl

. CAS#: 100-99-Z

Remarks field for Test Substance

METHOD

- **Method/guideline followed:** ASTM D56 Standard Test Methods for Flash-Point by TAG Closed Tester
- **GLP** (Y/N): Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions:

RESULTS

- **Flash Point value (°C): -23**
- **Decomposition (yes/no/ambiguous):**

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**

Remarks field for Data Reliability

REFERENCES

Key Study: Original Study conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet, 2000

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)

Supporting Data:

Density

Test Substance

Identity: Aluminum, tri n-octyl
CAS# 1070-00-4

Note on Test Substance: 7% solution in solvent

Method: ASTM D1217 Standard Method for Density and Relative Density (Specific Gravity) of Liquids by Bingham Pycnometer

GLP (Y/N): Unknown

Year (study performed): Unknown

Results

Density value (°C): 0.83

Conclusions

Data Quality

Reliabilities (Klimisch Code):

References

Key Study: Study conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

Other

Supporting Data:

VAPOUR PRESSURE

TEST SUBSTANCE

- **Identity:** Aluminum, tri n-octyl

. CAS# 1070-00-4

Remarks field for Test Substance: 7% solvent solution

METHOD

- **Method/guideline followed:** ASTM El 719 Standard Test Method for Vapor Pressure of Liquids by Ebulliometry
- **GLP** (Y/N): Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions: Aluminum alkyl assumed to consist entirely of the equilibrium mixture of monomer and dimer.

RESULTS

- **Vapor Pressure value:** 10^{-7} mm Hg
- **Temperature (“C): 40**
- **Decomposition (yes/no/ambiguous):**

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**

Remarks field for Data Reliability

REFERENCES

Key Study: Original Studies Conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet, 2000

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)

Supporting Data:

Density

Test Substance

Identity: Aluminum, chlorodiethyl
CAS# 96- 1 O-6

Method: ASTM D1217 Standard Method for Density and Relative Density (Specific Gravity) of Liquids by Bingham Pycnometer

GLP (Y/N): Unknown

Year (study performed): Unknown

Results

Density value (°C): 0.96

Conclusions

Data Quality

Reliabilities (Klimisch Code):

References

Key Study: Study conducted by Ethyl Corporation

Cited Documents: Albemarle Corporation Material Safety Data Sheet

Other

Supporting Data:

Melting Point

Test Substance

Identity: Trihexyl aluminum CAS# 1116-73-o

Method

Method/guideline followed: ICS-115 Approximately fifteen milliliters of alkyl is transferred into a glass apparatus and placed within an acetone/dry ice bath. As the mixture is agitated, the alkyl solution is allowed to super-cool. The data points collected are recorded onto a diskette using MS DOS Ertco-Hart. The file is converted into an Excel graph to determine the exact freezing point.

GLP (Y/N): N

Results

Melting point value (“C): -77C

Conclusions

Melting point for triehexyl aluminum is -77C.

Data Quality

Reliabilities (Klimisch Code):

References

Key Study:

Cited Documents:

Other

Supporting Data: Data found in Akzo Nobel Chemicals Inc. product bulletin (1995).

Density

Test Substance

Identity: Diethylaluminum chloride CAS# 96-1 O-6

Method

Method/guideline followed: ICS-115 The density of a metal alkyl is necessary when calculating weights of additions to a process where the additions were made in volume increments. The density of a metal alkyl is measured using a calibrated pycnometer into which a weighed amount of alkyl is added. The pycnometer is then placed in a constant temperature bath and the volume of the weighed sample is determined. The density of the alkyl is temperature dependent and is reported as a value at a specific temperature.

GLP (Y/N): N

Year (study performed):

Results

Density value (°C): 0.961

Conclusions

Density for triethyl aluminum is 0.961 g/mL @25C.

Data Quality

Reliabilities (Klimisch Code):

References

Key Study:

Cited Documents:

Other

Supporting Data: Data found in Akzo Nobel Chemicals Inc. product bulletin (1995).

Density

Test Substance

Identity: Triethyl aluminum CAS# 97-93-8

Method

Method/guideline followed: ICS- 115 The density of a metal alkyl is necessary when calculating weights of additions to a process where the additions were made in volume increments. The density of a metal alkyl is measured using a calibrated pycnometer into which a weighed amount of alkyl is added. The pycnometer is then placed in a constant temperature bath and the volume of the weighed sample is determined. The density of the alkyl is temperature dependent and is reported as a value at a specific temperature.

GLP (Y/N): N

Year (study performed):

Results

Density value (°C): 0.835

Conclusions

Density for triethyl aluminum is 0.835

Data Quality

Reliabilities (Klimisch Code):

References

Key Study:

Cited Documents:

Other

Supporting Data: Data found in Akzo Nobel Chemicals Inc. product bulletin (1995).

Melting Point

Test Substance

Identity: Triethyl aluminum CAS# 97-93-8

Method

Method/guideline followed: ICS-115 Approximately fifteen milliliters of alkyl is transferred into a glass apparatus and placed within an acetone/dry ice bath. As the mixture is agitated, the alkyl solution is allowed to super-cool. The data points collected are recorded onto a diskette using MS DOS Ertco-Hart. The file is converted into an Excel graph to determine the exact freezing point.

GLP (Y/N): N

Year (study performed):

Results

Melting point value (“C): -52C

Conclusions

Melting point for triethyl aluminum is -52C.

Data Quality

Reliabilities (Klimisch Code):

References

Key Study:

Cited Documents:

Other

Supporting Data: Data found in Akzo Nobel Chemicals Inc. product bulletin (1995).

Density

Test Substance

Identity: Trihexyl aluminum CAS# 116-73-O

Method

Method/guideline followed: ICS-115 The density of a metal alkyl is necessary when calculating weights of additions to a process where the additions were made in volume increments. The density of a metal alkyl is measured using a calibrated pycnometer into which a weighed amount of alkyl is added. The pycnometer is then placed in a constant temperature bath and the volume of the weighed sample is determined. The density of the alkyl is temperature dependent and is reported as a value at a specific temperature.

GLP (Y/N): N

Year (study performed):

Results

Density value (°C): 0.8 16 g/mL @30C

Conclusions

Density for trihexyl aluminum is 0.816 g/mL @30C.

Data Quality

Reliabilities (Klimisch Code):

References

Key Study:

Cited Documents:

Other

Supporting Data: Data found in Akzo Nobel Chemicals Inc. product bulletin (1995).

Melting Point

Test Substance

Identity: Diethylaluminum chloride CAS# 96-10-6

Method

Method/guideline followed: ICS-115 Approximately fifteen milliliters of alkyl is transferred into a glass apparatus and placed within an acetone/dry ice bath. As the mixture is agitated, the alkyl solution is allowed to super-cool. The data points collected are recorded onto a diskette using MS DOS Ertco-Hart. The tile is converted into an Excel graph to determine the exact freezing point.

GLP (Y/N): N

Year (study performed):

Results

Melting point value (°C): -85C

Conclusions

Melting point for diethylaluminum chloride is -85C.

Data Quality

Reliabilities (Klimisch Code):

References

Key Study:

Cited Documents:

Other

Supporting Data: Data found in Akzo Nobel Chemicals Inc. product bulletin (1995).

BOILING POINT

TEST SUBSTANCE

- **Identity:** Tris (2-methylpropyl)aluminum (CAS No. 100-99-2)

Remarks field for Test Substance

METHOD

- **Method/guideline followed:** Unknown
- **. GLP (Y/N):** Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions:

RESULTS

- **Boiling point value (°C):** **86** °C
- **Pressure:** ***10***
- **Pressure unit:** mm Hg
- **Decomposition (yes/no/ambiguous):** Unknown

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**

Remarks field for Data Reliability

REFERENCES

Key Study: Windholz, **M.** 1982. The Merck Index, 9th Edition. Merck and Company, Inc., Rahway, NJ

Cited Documents:

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)
Supporting Data:

VAPOUR PRESSURE

TEST SUBSTANCE

- **Identity:** Trichlorotriethyldialuminum (CAS No. 12075-68-2)

Remarks field for Test Substance

METHOD

- **Method/guideline followed:** Unknown
- **GLP (Y/N):** Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions:

RESULTS

- **Vapor Pressure value:** 11 hPa (8.27 mm Hg)
- **Temperature (°C):** 80
- **Decomposition (yes/no/ambiguous):** yes (ca 150 “C)

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**

Remarks field for Data Reliability

REFERENCES

Key Study: Witco Material Safety Data Sheet. MSDS No. 700000001132. Rev. 1.3, 02/03/2001.

Cited Documents:

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)

Supporting Data:

MELTING POINT

TEST SUBSTANCE

- **Identity:** Trichlorotriethyldialuminum (CAS No. 12075-68-2)

Remarks field for Test Substance

METHOD

- **Method/guideline followed:** Unknown
- **. GLP (Y/N):** Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions:

RESULTS

- **Melting point value (°C):** Not relevant
- **Decomposition (yes/no/ambiquous):** yes (ca 150 “C)
- **Sublimation (yes/no/ambiguous):** Unknown

Remarks field for Results

CONCLUSIONS Determination of melting point data not relevant as the item decomposes before a measurement can be made.

Remarks field with Ability to Identify Source of Comment

DATA QUALITY

- **Reliabilities (Klimisch Code):**

Remarks field for Data Reliability

REFERENCES

Key Study: Witco Material Safety Data Sheet. MSDS No. 700000001132. Rev. 1.3, 02/03/2001

Cited Documents:

OTHER

- Last changed (administrative field for updating)

- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)
Supporting Data:

VAPOUR PRESSURE

TEST SUBSTANCE

Identity: Chlorobis(2-methylpropyl)aluminum (CAS No. 1779-25-5)

Remarks field for Test Substance

METHOD

- **Method/guideline followed:** Unknown
- **. GLP (Y/N):** Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions:

RESULTS

- **Vapor Pressure value:** 0.3 hPa
- **Temperature (°C):** 80
- **Decomposition (yes/no/ambiguous):** yes (ca 150 “C)

Remarks field for Results

CONCLUSIONS

DATA QUALITY

- **Reliabilities (Klimisch Code):**

Remarks field for Data Reliability

REFERENCES

Key Study: Witco Material Safety Data Sheet. MSDS No. 700000001237. Rev. 1.4, 06/20/2000

Cited Documents:

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)

Supporting Data:

MELTING POINT

TEST SUBSTANCE

- **Identity:** Chlorobis(2-methylpropyl)aluminum (CAS No. 1779-25-5)

Remarks field for Test Substance

METHOD

- **Method/guideline followed:** Unknown
- **. GLP (Y/N):** Unknown
- **Year (study performed):** Unknown

Remarks field for Test Conditions:

RESULTS

- **Melting point** value **(°C):** Not relevant
- **Decomposition (yes/no/ambiquous):** yes (ca 150 “C)
- **Sublimation (yes/no/ambiguous):** Unknown

Remarks field for Results

CONCLUSIONS Determination of melting point data not relevant as the item decomposes before a measurement can be made.

Remarks field with Ability to Identify Source of Comment

DATA QUALITY

- **Reliabilities (Klimisch Code):**

Remarks field for Data Reliability

REFERENCES

Key Study: Witco Material Safety Data Sheet. MSDS No. 700000001237. Rev. 1.4, 06/20/2000

Cited Documents:

OTHER

- Last changed (administrative field for updating)
- Order number for sorting (administrative field)

Remarks field for General Remarks (Use for any other comments necessary for clarification.)
Supporting Data: